

EXHIBIT 4
Partially Redacted
Public Version

FIRST SUPPLEMENTAL EXHIBIT I
TO INTERROGATORY NO. 31
(Oct. 14, 2016)

CONTAINS HIGHLY CONFIDENTIAL
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SOURCE CODE MATERIALS

IOS-XR HELP DESCRIPTION MATERIALS

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Show detailed output (XR)	show ssrp groups all detailed	Cisco/pshepher	CSCsv79797	01/2009
Begin with the line that matches (XR)	show begin	Cisco/Fan Kong	CSCdm08565	07/1999
Configure from the terminal (XR)	configure terminal	Cisco/roque		06/1998
Current operating configuration (XR)	show configuration running-config show running-config	Cisco/afong	CSCeb22964	5/30/2003
Exclude lines that match (XR)	show exclude	Cisco/Fan Kong	CSCdm08565	07/1999

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Exit from configure mode (XR)	end exit	Cisco/Rick Pratt	CSCdm55064	06/1999
Include lines that match (XR)	include show ver include	Cisco/Fan Kong	CSCdm08565	07/1999
Priority level (XR)	setpriority <prio level> priority level	Cisco/spodila	CSCds38259	10/2000

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Interface Name (XR)	tunnel-ipsec profile <IPSec profile name> tunnel source interface	Cisco/yni	CSCef40000	2004-07- 28
Key number (XR)	ntp authentication-key ntp trusted-key trusted-key authentication-key	Cisco/mstenber	CSCsm43018	2008-03-04
Network time protocol (XR)	show ntp	Cisco/ysomchit	CSCsm36133	2008-01-28

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
NTP associations (XR)	show ntp associations	Cisco/ysomchit	CSCsm36133	2008-01-28
NTP status (XR)	show ntp status	Cisco/ysomchit	CSCsm36133	2008-01-28
NTP version number (XR)	ntp interface broadcast version ntp server ipv4 version	Cisco/mstenber	CSCsm43018	2008-03-04
IPv6 information (XR)	resequence access- list ipv6 req show ipv6	Cisco/smortala	CSCeg49474	01/13/2005
Prefix length (XR)	<seq number> [permit/deny] <network>/<length> eq <prefix length>	Cisco/gvalluri	CSCsm68675 (05/09/2008)	05/1999
Sequence Number (XR)	<seq number> [permit/deny] <network>/<length>	Cisco/gvalluri	CSCsm68676 (05/09/2008)	05/1999
Sequence number (XR)	<seq number> [permit/deny] <network>/<length>	Cisco/gvalluri	CSCsm68676 (05/09/2008)	05/1999

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Show PTP interface information (XR)	show ptp interfaces	Cisco/Julian Priestley (jupriest)	CSCtb38997	2009-09-10
AAA group definitions (XR)	aaa group aaa group server	Cisco/jccooke	CSCeh86207	2005-05-12
Default vrf (XR)	clear dhcp vrf default show dhcp vrf default	Cisco/chroche	CSCsk46509	2007-09-20
Name of the user (XR)	show aaa userdb WORD show user	Cisco/rsaravan	CSCdy32883	2002-08-12
No accounting (XR)	aaa accounting default no accounting aaa method-list type	Cisco/jccooke	CSCeh86207	2005-05-12
RADIUS configuration (XR)	server auth-port acct-port	Cisco/bmuppana	CSCsk62636	9/28/2007

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Set IP DSCP (DiffServ CodePoint) (XR)	radius-server ipv4 dscp set dscp	Cisco/jccooke	CSCtr97515	2011-08-10
Set TACACS+ encryption key (XR)	tacacs-server key key { 0 clear-text-key 7 encrypted-key auth-key }	Cisco/gdweber	CSCdp89121	2000-10-26
Specifies that an UNENCRYPTED key will follow (XR)	radius-server key key { 0 clear-text-key 7 encrypted-key auth-key }	Cisco/ahoang	CSCsq77393	2009-01-10
Specify a RADIUS server (XR)	radius-server host	Cisco/ahoang	CSCsq77393	2009-01-10
Specify a TACACS+ server (XR)	tacacs-server host	Cisco/jccooke	CSCeh86207	2005-05-12
Specify interface (XR)	reserved-address IpAddress { client-id <client-id> mac- address <mac- address> interface <interface> ... }	Cisco/altrefon	CSCtf96702	2010-04-20

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User name (XR)	username WORD show scheduled task user	Cisco/jccooke	CSCeh86207	2005-05-12
Wait time (default 5 seconds) (XR)	tacacs-server timeout	Cisco/indm	CSCtk15121	2010-12-07

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Entry Index (XR)	show lpts pifib hardware entry type ipv4 start-index	Cisco/gopkumar	CSCsy29863	3/13/2009
Source MAC address (XR)	clear lpts punt excessive-flow-trap interface [mac- address <mac>]	Cisco/gessau	CSCtw61539	12/7/2011
Brief output (XR)	show statsd registrations access brief debug spanning-tree repag packet brief	Cisco/laduggan	CSCtr43476	7/27/2011
Copy from current system configuration (XR)	copy running- configuration	Cisco/ageevarg	CSCdm56215	1999-09-09

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Display the contents of a file (XR)	more	Cisco/ageevarg	CSCdm56237	1999-09-16

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Display the system clock (XR)	show clock	Cisco/wmay	CSCdm56143	1999-06-24
Number of lines on screen (0 for no pausing) (XR)	terminal length	Cisco/Jonathan Turnbull	CSCuk21454	2001-04-20
Open a telnet connection (XR)	telnet	Cisco/Anand Oswal	CSCdk73248	1999-10-21
Specify interval for load calculation for an interface (XR)	load-interval	Cisco/Bhupendra Yadav	CSCdu12392	2001-05-01

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Update (merge with) current system configuration (XR)	admin copy running-config copy bootflash running-config	Cisco/Mike Letchworth	CSCea88462	2003-04-30

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Virtual terminal (XR)	send vty show line vty	Cisco/jomcdowe	CSCuk24902	2001-10-19

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Interface information (XR)	show atm interface	Cisco/vijaycha	CSCsv93726	2/20/2009

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Timeout in seconds (XR)	ping atm interface timeout tracertoute ipv4 timeout	Cisco/jskender	CSCek36622	2006-04-04

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
VLAN ID (XR)	ethernet cfm domain down-meps id vlanid spanning-tree interface vlan debug spanning-tree mstp pvstag-io vlan vlan	Cisco/Barnaby Jones (barjones); Matthew Cornford (mcorfor)	CSCsk67948; CSCth13138	2007-09-29; 2010-07-08
VLAN ID (XR)	show l2vpn mstp vlan	Cisco/houahid	CSCsd71632	2006-04-17

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Destination Ip Address (XR)	show rsvp sender destination clear rsvp authentication source destination	Cisco/skraza	CSCdt50495	2001-02-21
Detailed interface information (XR)	show mpls oam interface detail show mpls oam interface all detail	Cisco/jisarar	CSCdy77297	2002-12-16

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Differentiated Services Code Point (DSCP) (XR)	rsvp interface signalling dscp signalling dscp	Cisco/skraza	CSCdt78888	2001-03-27
Interface events (XR)	debug rsvp interface debug rsi agent interface	Cisco/dtoscano	CSCdz19902	2002-11-01

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Metric value (XR)	mpls traffic-eng pce test metric-type metric	Cisco/msiva	CSCsh77144	2007-03-19
next hop address (XR)	test rsvp client-api receiver show route next-hop	Cisco/lanzheng	CSCdt59461	2001-03-08
Packet Counters (XR)	show rsvp counters pak show mpls oam counter packet clear bfd counters packet	Cisco/dtoscano	CSCec76704	2003-11-19
Repeat count (XR)	ping mpls traffic-eng repeat ping count	Cisco/dprairie	CSCeh92672	2005-05-16

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Version number (XR)	mpls traffic-eng pce test msg-version	Cisco/msiva	CSCsh97401	2007-03-09
Address family IPv4 (XR)	route-policy ipv4 address-family ipv4	Cisco/murtuza	CSCsm22760	2008-01-16
Address family IPv6 (XR)	route-policy ipv6 address-family ipv6	Cisco/murtuza	CSCsm22760	2008-01-16

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Topology information (XR)	show controller fabric driver instance asic_instance { backpressure block link-info {Tx Rx{topo}}} show controllers fia link-info rx topo instance location	Cisco/gpbeedu	CSCef63902	2004-10-26

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Address family modifier (XR)	router bgp address-family address-family ipv4 flowspec address-family ipv4 mdt address-family ipv4 multicast address-family ipv4 mvpn address-family ipv4 rt-filter address-family ipv4 tunnel address-family ipv4 unicast	Cisco/tmondal	CSCeb00184	2003/06/16
Administratively shut down this neighbor (XR)	router bgp neighborshutdown neighbor shutdown	Cisco/wilber	CSCdp23626	1999/11/05
BGP distance (XR)	router bgp distance bgp distance bgp	Cisco/wilber	CSCdp32152	1999/11/07
BGP Timers (XR)	router bgp timers bgp timers bgp	Cisco/roque	CSCdm76163	1999/08/06
Delay value (seconds) (XR)	router bgp bgp update-delay bgp update-delay	Cisco/wilber	CSCds03078	2000/08/10

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Keepalive interval (XR)	router bgp timers bgp keepalive interval	Cisco/roque	CSCdm76163	1999/08/06
Route Distinguisher (XR)	router bgp vrf rd auto rd	Cisco/mhesketh	CSCeh24714	2005/02/27

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Router link states (XR)	show nps ospf database router show ospf database router	Cisco/ryakkala	CSCtl96110	2011/04
Show detailed information (XR)	show issu-warm-reload show ONEP statistics	Cisco/jamechen	CSCtj63885	2010/11
Time in minutes (XR)	show service attach location <service-cpu> <debug> timeout	Cisco/pvsriniv	CSCsm87394	2008/03
Advertising Router link states (XR)	show ospf database router show ospfv3 database router show ospfv3 database adv-router	Cisco/Eugene Kim	CSCdk69395	1998

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distributio Date
ASBR summary link states (XR)	show ospf database asbr-summary	Cisco/Eugene Kim	CSCdk69395	1998
Border and Boundary Router Information (XR)	show ospf border-routers show ospfv3 border-routers	Cisco/Eugene Kim	CSCdp72305	1998
Brief interface information (XR)	show ospf interface brief show ospfv3 interface brief	Cisco/Eugene Kim	CSCef30669	1998
Control distribution of default information (XR)	router rip default-information originate route-policy default-information	Cisco/Cisco/Vipin Kumar	CSCeh48217	Mar-05
Database summary (XR)	show ospf database show ospfv3 database	Cisco/Eugene Kim	CSCdk69395	1998
Define an administrative distance (XR)	router rip distance admin-distance distance	Cisco/Vipin Kumar	CSCeh48217	Mar-05

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Display OSPF router IDs as DNS names (XR)	ospf name-lookup	Cisco/Eugene Kim	CSCdp79774	2000
Distribute a default route (XR)	router rip default-information originate route-policy default-information originate	Cisco/Vipin Kumar	CSCeh48217	Mar-05

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
External link states (XR)	show ospf database external show ospfv3 database external	Cisco/Eugene Kim	CSCdk69395	1998
Hello interval (XR)	mpls ldp discovery hello interval bfd minimum-interval	Cisco/dtoscano	CSCtu00089	2011/11

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
IPv6 interface status and configuration (XR)	show ipv6 interface	Cisco/Paul Atkins		May 2001
IS-IS instance name (XR)	router ospf redistribute isis router ospfv3 redistribute isis	Cisco/Eugene Kim	CSCdk69421	1998
Neighbor list (XR)	show ospf neighbor show ospfv3 neighbor	Cisco/Eugene Kim	CSCdk69395	1998

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distributio Date
Network link states (XR)	show ospf database network show ospfv3 database network	Cisco/Eugene Kim	CSCdk69395	1998
Network summary link states (XR)	show ospf database summary	Cisco/Eugene Kim	CSCdk69395	1998

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NSSA External link states (XR)	show ospf database nssa-external show ospfv3 database nssa- external	Cisco/Eugene Kim	CSCdk69395	1998
Opaque Area link states (XR)	show ospf database opaque-area	Cisco/Eugene Kim	CSCdk69395	1998
Opaque AS link states (XR)	show ospf database opaque-as	Cisco/Eugene Kim	CSCdk69395	1998
Opaque Link-Local link states (XR)	show ospf database opaque-link	Cisco/Eugene Kim	CSCdk69395	1998
Open Shortest Path First (OSPF) (XR)	router ospf redistribute show running router ospf	Cisco/Eugene Kim	CSCdk69421	1998
Redistribute OSPF external routes (XR)	router ospf redistribute ospf match external	Cisco/Eugene Kim	CSCdk69421	1998
Redistribute OSPF internal routes (XR)	router ospf redistribute ospf match internal	Cisco/Eugene Kim	CSCdk69421	1998
Redistribution of OSPF routes (XR)	router ospf redistribute ospf match	Cisco/Eugene Kim	CSCdk69421	1998

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Self-originated link states (XR)	show ospf database self-originate show ospfv3 database self-originate	Cisco/Eugene Kim	CSCdk69395	1998
Set advertised NS retransmission interval (XR)	ipv6 nd ns-interval	Cisco/Paul Atkins		May 2001
Set IPv6 Router Advertisement Interval (XR)	ipv6 nd ra-interval	Cisco/Paul Atkins		May 2001
Suppress routing updates on this interface	router rip interface <type> <location> passive-interface	Cisco/Vipin Kumar	CSCeh48217	Mar-05
TCP protocol (XR)	bundle-hash bundle <bundle> L4 ipv4 l4protocol	Cisco/skhaunte	CSCsz49250	2009/11
IP routing table (XR)	show route	Cisco/gus	CSCdt97533	2001-05-22
Next hop (XR)	show route resolving- next-hop address-family next- hop dampening disable	Cisco/gus	CSCdt97533	2001-05-22
Next hop (XR)	config mpls traffic- eng interface tp link next-hop	Cisco/yufeishi	CSCdz90062	2003-02-21

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Tunnel ID (XR)	show cef external destination tunnel-id	Cisco/kartsubr	CSCek51871	2006/09/28
Tunnel ID (XR)	config ip rsvp-endpoint sender-lsp	Cisco/David Toscano	CSCdz19902	2002-11-1

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Tunnel ID (XR)	config route prefix /mask [vrf vrf-name] { ip-address type interface-path-id [ip- address type interface-path-id] [track track-object- name] [tunnel-id tunnel-id] [vrflabel vrf-label] [distance] [description text] [tag tag] [permanent] }	Cisco/vinh (Vinh Huynh)	CSCse91471	2006/08/04
Tunnel ID (XR)	config mpls te gmpls optical-uni controller dwdm <interface> tunnel-properties tunnel-id <tun-id>	Cisco/Matt Hartley	CSCto73953	2011/04/25
Tunnel ID (XR)	config interface tunnel-tp destination global-id tunnel-id config interface tunnel-tp destination tunnel-id	Cisco/Siva Sivabalan	CSCtd58377	2010/10/14
Tunnel ID (XR)	show vpdn session tunnel-id	Cisco/jserpa	CSCto88690	2011/04/26

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Disable the interface (XR)	NEW SYNTAX ethernet oam profile action high-threshold error-disable- interface interface ethernet oam action high- threshold error-	Cisco/Colin Howe (colhowe)	CSCsk67948	2007-09-29
Number of MAC addresses (XR)	test mac-acc-clnt location show l2vpn forwarding bridge- domain hardware ingress detail location	Cisco/Peyman Owladi (powladi)	CSCsl08650	2007-11-29
Interface filter (XR)	debug test-debug- services interface1	Cisco/ranjana, snprasad		2000/06

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Rule number (XR)	cpt-filter <filter_name> <rule_number> rule number	Cisco/jingpwan	CSCtl51666	2011/03
Label value (XR)	test mpls ldp nsr send-ack vrf-id peer rem-lbl-wdw pfx lbl local-label	Cisco/jwu	CSCsj96156	4/12/2008
Neighbor information (XR)	clear mpls ldp msg- counters neighbor show ospf neighbor show bgp neighbor show mpls ldp neighbor show isis neighbor	Cisco/jwu	CSCsj96156	4/12/2008
All modules (XR)	debug qoshal module	Cisco/amol	CSCsq72775	07/17/2008

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
User Datagram Protocol (XR)	show performance traffic platform flow all-entries I4-protocol ipv4 access-list blah permit udp	Cisco/kiprakas	CSCsy71471	04/22/2009
Destination MAC address (XR)	run ceping -d ceping mac	Cisco/shrdixit	CSCtj33405	2011-01-06
Port id (XR)	show nv edge control control-link-port- counters	Cisco/chisholm	CSCtg81367	2010-07-15

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Enable authentication (XR)	sbc sbe adjacency sip authentication	Cisco/gbushill	CSCei90284	2005/09
Host name (XR)	sbc sbe adjacency sip registration target address	Cisco/onicolso	CSCsd65795	2006/03
IPv4 address family (XR)	show mlib ipv4 address-family ipv4	Cisco/anujagar	CSCsi24320	1/17/2013
IPv6 address family (XR)	show mlib ipv6 address-family ipv6	Cisco/anujagar	CSCsi24320	1/17/2013
Process ID (XR)	router isis	Cisco/Matt Hartley		2001/07
Object Name	track config bool and threshold list show snmp mib object-name	Cisco/bchaudha	CSCtq34445	2011
Set buffered logging parameters (XR)	conf logging buffered params	Cisco/azhar	CSCdm82639	1999

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Show the contents of logging buffers (XR)	show logging	Cisco/azhar	CSCdm82639	1999
Threshold value (XR)	config track threshold and bool list type list threshold percentage threshold	Cisco/bchaudha	CSCtq34445	2011

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Traffic class (XR)	show flow show flow monitor cache match ipv6 tc	Cisco/bchaudha	CSCek52392	2006
Show controller information (XR)	show ethernet stats info-ge show controller	Cisco/grroff	CSCdr74329	6/28/2000
Authentication parameters for the user (XR)	snmp-server view all 1.3 included snmp-server group read_group v3 priv read all snmp-server user read_user read_group v3 auth md5 test priv des56 test snmp user asdf asd v3 auth	Cisco/dbattle	CSCdy66942	19/09/02

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BFD information (XR)	bfd show bfd	Cisco/rrahman	CSCeg65713	11/01/05
Configure a local or remote SNMPv3 engineID (XR)	snmp-server engineID local snmp-server engineID remote snmp engineID	Cisco/dbattle	CSCdy66942	19/09/02
Context name (XR)	snmp-server context snmp-server context mapping snmp vrf asdf context	Cisco/swaroop	CSCei26836	20/07/05
Define a User Security Model group (XR)	snmp-server group test v1 <aclname> snmp-server group test v2c <aclname> snmp-server group test v3 auth <aclname>	Cisco/dbattle	CSCdy66942	19/09/02
Define a user who can access the SNMP engine (XR)	snmp-server user snmp user	Cisco/dbattle	CSCdy66942	19/09/02
Define an SNMPv2 MIB view (XR)	snmp-server view included excluded snmp view	Cisco/dbattle	CSCdy66942	19/09/02

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EngineID of a remote agent (XR)	snmp-server engineID remote	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
EngineID of the local agent (XR)	snmp-server engineID local	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Group to which the user belongs (XR)	snmp-server user remote v1 v2c v3	Cisco/dbattle	CSCdy66942	19/09/02
Group using the User Security Model (SNMPv3) (XR)	snmp-server group v3	Cisco/dbattle	CSCdy66942	19/09/02

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Group using the v1 security model (XR)	snmp-server group v1	Cisco/dbattle	CSCdy66942	19/09/02
Group using the v2c security model (XR)	snmp-server group v2c	Cisco/dbattle	CSCdy66942	19/09/02

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Identification of the contact person for this managed node (XR)	snmp-server contact	Cisco/pramacha	CSCdp68801	21/01/00

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IGMP host query interval (XR)	igmp query-interval	Cisco	CSCdp22172	1999-10-21
Management Address TLV (XR)	lldp tlv-select management-address disable lldp tlv-select management address	Cisco/dtung	CSCth04055	08/07/10
MIB family is excluded from the view (XR)	snmp-server view excluded snmp-server view pulic excluded	Cisco/dbattle	CSCdy66942	19/09/02
MIB family is included in the view (XR)	snmp-server view included snmp-server view pulic included	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
MIB view family name (XR)	snmp-server view included excluded sh snmp mib	Cisco/dbattle	CSCdy66942	19/09/02
MIB view to which this community has access (XR)	snmp-server community view	Cisco/ramk	CSCdp35516	12/11/99
Name of the group (XR)	snmp-server group	Cisco/dbattle	CSCdy66942	19/09/02
Name of the view (XR)	snmp-server view	Cisco/dbattle	CSCdy66942	19/09/02
Notify view name (XR)	snmp-server group v2c notify	Cisco/dbattle	CSCdy66942	19/09/02
Port Description TLV (XR)	lldp tlv-select port-description disable	Cisco/dtung	CSCth04055	08/07/10
Read view name (XR)	snmp-server group v2c read	Cisco/dbattle	CSCdy66942	19/09/02
Send Inform messages to this host (XR)	snmp-server host informs community encrypted version	Cisco/ramk	CSCdr09112	31/03/00
Send Trap messages to this host (XR)	snmp-server host traps community encrypted version	Cisco/ramk	CSCdr09112	31/03/00

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Session information (XR)	show bfd [ipv4 [singlehop multihop] ipv6 [singlehop multihop] label all] session [hardware software] [detail interface [destination [ipv4 unicast address]]]	Cisco/rjanarda	CSCeg16058	12/12/04
SNMP community string (XR)	snmp-server community	Cisco/ramk	CSCdp35516	12/11/99
SNMP statistics (XR)	show snmp statistics	Cisco/mordock	CSCdp03026	30/09/99
SNMP version to use for notification messages (XR)	snmp-server vrf host snmp-server group monitorgroup v3 priv read readview	Cisco/swaroop	CSCsc21074	11/11/2005
Specify a notify view for the group (XR)	snmp-server group <group name> v2c notify <view name>	Cisco/dbattle	CSCdy66942	19/09/02
Specify a remote SNMP entity to which the user belongs (XR)	snmp-server user <user name> <group name> remote <IP address>	Cisco/dbattle	CSCdy66942	19/09/02
Specify hosts to receive SNMP notifications (XR)	snmp-server hosts	Cisco/ramk	CSCdr09112	31/03/00

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
String to uniquely identify this chassis (XR)	snmp-server chassis-id	Cisco/pramacha	CSCdp83853	12/02/00
System Capabilities TLV (XR)	lldp tlv-select system-capabilities disable	Cisco/dtung	CSCth04055	08/07/10
System Description TLV (XR)	lldp tlv-select system-description disable	Cisco/dtung	CSCth04055	08/07/10
System Name TLV (XR)	lldp tlv-select system-name disable	Cisco/dtung	CSCth04055	08/07/10
Text for mib object sysContact (XR)	snmp-server contact	Cisco/pramacha	CSCdp68801	21/01/00

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Text for mib object sysLocation (XR)	snmp-server location	Cisco/pramacha	CSCdp68801	21/01/00
The physical location of this node (XR)	snmp-server location LINE	Cisco/pramacha	CSCdp65690	14/01/00

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Unique ID string (XR)	snmp-server chassis-id	Cisco/pramacha	CSCdp83853	12/02/00

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Use HMAC MD5 algorithm for authentication (XR)	snmp-server user v3 auth md5	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Use HMAC SHA algorithm for authentication (XR)	snmp-server user v3 auth sha	Cisco/dbattle	CSCdy66942	19/09/02

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
User using the v1 security model (XR)	snmp-server user v1	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
User using the v2c security model (XR)	snmp-server user v2c	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
User using the v3 security model (XR)	snmp-server user v3	Cisco/dbattle	CSCdy66942	19/09/02

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
write view name (XR)	snmp-server group v2c write	Cisco/dbattle	CSCdy66942	19/09/02
MTU (bytes) (XR)	interface ipv4 mtu	Cisco/ramohant	CSCdr94669	April 2000

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Display detailed information (XR)	show cef mpls local-label conflicts detail	Cisco/Pawan Uberoy	CSCef80490	Feb. 2005
Port number (XR)	cd	Cisco/Dongling Duan	CSCdz32401	2002/11/15
Clear platform information (XR)	clear cef platform event stats location clear cef platform	Cisco/Rama paduvalli	CSCtk03827	2010-11-12
Group number (XR)	debug fhrp-output client interface group	Cisco/Ross Denham	CSCtw64129	2007

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Track an interface (XR)	vrrp version track interface track interface	Cisco/Thomas Dalton	CSCuk37574	2001
Interval in milliseconds (XR)	show mfib [vrf <vrf-name>] [ipv4 ipv6] route-rate {[routes <num_of_routes>] [interval <interval>]	Cisco/arvvenka	CSCua76861	11/13/2012
Interval in seconds (XR)	router pim vrf <vrf-name> address-family ipv4 mdt data announce-interval [value]	Cisco/ramohant	CSCsu73570	11/12/2012

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Multicast source address (XR)	show tech-support multicast classic address-family ipv4 group show mrib route show pim topology	Cisco/subsinha	CSCsq30687	10/2/2008
Multicast Source Discovery Protocol (MSDP) (XR)	clear msdp show msdp	Cisco/rueddy	CSCds19167	9/7/2000
Neighbor filter (XR)	neighbor-filter	Cisco/apoorva	CSCea59903	4/1/2003
Port name (XR)	Show igmp snooping profile port references and show igmp snooping redundancy iccp group <ID> port detail statistics	Cisco/keblanc, bkodamas	CSCsq66575, CSCtd51186	2008/09/18 2009/12/08

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Query interval in seconds (XR)	igmp query-interval	Cisco/kouvelas	CSCdp22172	10/21/1999
Time interval in seconds (XR)	show mfib [vrf <vrf-name>] [ipv4 ipv6] route-rate {[routes <num_of_routes>] [interval <interval>]	Cisco/arvvenka	CSCua76861	11/12/2012
48-bit hardware address of ARP entry (XR)	show arp <mac-adr> show ip arp	Cisco/Rayen Mohanty	CSCds30993	2000-09-27
Datagram size (XR)	ping size	Cisco/Dongling Duan	CSCds48966	2000-12-15

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Detailed information (XR)	show rsvp detail show ip rsvp	Cisco/Paul Henri	CSCds46174	2002-02-15

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Enable local proxy ARP (XR)	local-proxy-arp	Cisco/Ross Denham	CSCtc40826	2009-11-18
Enable proxy ARP (XR)	proxy-arp	Cisco/mikel	CSCdm17595	1999-04-03

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distributio Date
Filter by Interface Name (XR)	show arp-gmp interface show evpn ethernet-segment interface	Cisco	CSCei55852	2005-07-21
Global IPv6 configuration commands (XR)	ipv6	Cisco/dfawcus	CSCuk36375	2002-08-01

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Interface status and configuration (XR)	show interfaces	Cisco/Greg Stovall, Hongchi Shih		April 1998
IPv4 echo (XR)	ping ipv4	Cisco/Dongling Duan	CSCed69528	2004-02-13
IPv4 Trace (XR)	traceroute ipv4	Cisco/Dongling Duan	CSCed69528	2004-02-13
IPv6 echo (XR)	ping ipv6	Cisco/mhannah	CSCuk38963	2002-11-12
IPv6 Trace (XR)	traceroute ipv6	Cisco/Dongling Duan	CSCdz32401	2002-11-15
MAC address (XR)	arp vrf ARPA ethernet mac- allocation pool base range	Cisco/M. Ravizza		November 1998

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Ping destination address or hostname (XR)	ping WORD	Cisco/Dongling Duan	CSCdr84904	2000-07-24
Select an interface to configure (XR)	srfg interface show interface <interfacename>	Cisco/Prashant Savani		2009
Select an interface to monitor (XR)	monitor interface	Cisco/jyaghoub	CSCdz34743	11/18/2002
Send echo messages (XR)	ping	Cisco/Dongling Duan	CSCdr84904	2000-07-24
Trace route to destination (XR)	traceroute	Cisco/Dongling Dang	CSCdr93924	2000-08-07

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Trace route to destination address or hostname (XR)	tracroute WORD	Cisco/Dongling Duan	CSCdr93924	2000-08-07

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
UDP protocol (XR)	show cef exact-route protocol UDP	Cisco/Pawan Uberoy	CSCsi98453	Feb 2005
AS Number (XR)	router eigrp <AS #> address-family autonomous-system	Cisco/Karthik Subramanian	CSCei05485	Feb-05
Redistribute Connected routes (XR)	redistribute {{bgp connected isis ospf rip static} [as-number instance-name]} [route-policy name]	Cisco/Karthik Subramanian	CSCei05485	Feb-05

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Hold time (XR)	hold-time	Cisco/Karthik Subramanian	CSCei05485	Feb-05
Suppress routing updates in an interface (XR)	passive-interface	Cisco/Karthik Subramanian	CSCei05485	Feb-05
User Datagram Protocol (XR)	show flow monitor cache match ipv4 protocol range	Cisco/gsadasiv	CSCef51628	09/14/2005

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Detailed Output (XR)	show ipsla statistics enhanced aggregated detail	Cisco/Shinya Watanabe		Jul 2005

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Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Earliest Known Document	First Distribution Date
Time to Live Value (XR)	ipsla operation type mpls lsp ping ttl ttl	Cisco/Taisuke Sasaki		Jul 2006
Show PFC information for a specific interface (XR)	show controller gig all	Cisco		
Debug Counters (XR)		Cisco/huizhang	CSCsz17175	21/04/2009

IOS HELP DESCRIPTION MATERIALS

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
48-bit hardware address of ARP entry (IOS)	show ip arp	Cisco/Kirk Lougheed Cisco/Terry Slattery (V.9.21)	isco IOS 9	December 1992
AAA group definitions (IOS)	aaa group	Cisco/Jan Vilhuber	isco IOS version associated with "First Distribution Date"	June 1997
Administratively shut down this neighbor (IOS)	neighbor shutdown	Cisco/Enke Chen	isco IOS 12	September 1998
Advertising Router (as an IP address) (IOS)	show ip ospf database adv-router	Cisco	isco IOS	
Advertising Router link states (IOS)	show ip ospf database adv-router	Cisco/John Averl	isco IOS version associated with "First Distribution Date"	March 2010
Always advertise default route (IOS)	default-information originate always	Cisco	isco IOS	
An ordered list as a regular-expression (IOS)	ip extcommunity-list expanded ip community-list 100 deny line ip community-list 100 permit line	Cisco/Robert Albrightson/Rex Fernando	isco IOS 12.1	March 30, 2000
ARP type ARPA (IOS)	arp arpa	Cisco/Kirk Lougheed/ Cisco/Terry Slattery (v 9.21)	isco IOS version associated with "First Distribution Date"	1992
ASBR summary link states (IOS)	show ip ospf database asbr-summary	Cisco/Robert Widmer	isco IOS 10	May 1993
Assign policy-map to the input of an interface (IOS)	service input	Cisco/John Poulin	isco IOS version associated with "First Distribution Date"	November 1998

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Assign policy-map to the output of an interface (IOS)	service-policy output	Cisco/John Poulin		Cisco IOS version associated with "First Distribution Date"	November 1998
Authentication parameters for the user (IOS)	snmp-server user auth	Cisco/Ramanthan Kavasserri		Cisco IOS .0(3)T	January 21, 1999

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Border and Boundary Router Information (IOS)	show ip ospf border-routers	Cisco/Arpakorn Boonkongchuen/ Robert Widmer/ Abhay Roy	Cisco IOS 10	May 1993
Change current directory (IOS)	cd	Cisco/Scott Mackie	Cisco IOS version associated with "First Distribution Date"	August 1997
Class of service (IOS)		Cisco	Cisco IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Configure a local or remote SNMPv3 engineID (IOS)	snmp-server engineID local remote	Cisco/Ramanthan Kavasseri/jokim	Cisco IOS 2.0(3)T	21-Jan-99
Configure from the terminal (IOS)	configure terminal	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	October 29, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Configure IP address summaries (IOS)	summary address	Cisco		Cisco IOS version associated with "First Distribution Date"	1992	
Configure load balancing (IOS)	dlsd load-balance port-channel load-balance link	Cisco/Frank Bordonaro		Cisco IOS version associated with "First Distribution Date"	July 1994	
Configure logging for interface (IOS)	logging	Cisco/Dana Blair		Cisco IOS version associated with "First Distribution Date"	March 1997	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Configure QoS Class Map (IOS)	class-map	Cisco	Cisco IOS	
Configure QoS Policy Map (IOS)	policy-map	Cisco	Cisco IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Minimum Operating System	First Distribution Date
Configure QoS Service Policy (IOS)	service-policy output service-policy input	Cisco/John Poulin	Minimum IOS version associated with "First Distribution Date"	November 1998

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Operating System	First Distribution Date	
Contents of startup configuration (IOS)	show startup-config	Cisco/Robert Widmer	to IOS version associated with "First Distribution Date"	August 12/1996	
Control distribution of default information (IOS)	default-information	Cisco	to IOS		

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Copy from one file to another (IOS)	copy cp	Cisco/Scott Mackie		isco IOS version associated with "First Distribution Date"	September 5, 1996	
Current operating configuration (IOS)	show running-config	Cisco/Robert Widmer		isco IOS version associated with "First Distribution Date"	August 12, 1996	
Default domain name (IOS)	ip domain-name	Cisco/Kirk Loughheed/Richard A Johnson		isco IOS 10	1993	
Define a User Security Model group (IOS)	snmp-server group	Cisco/Ramanathan Kavasseri/jokim		isco IOS 11.(3)T	December 15, 1997	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Define a user who can access the SNMP engine (IOS)	snmp-server user	Cisco/Ramanthan Kavasseri/jokim	Cisco IOS 12.0(3)T	January 21, 1999
Define an administrative distance (IOS)	distance eigrp	Cisco	Cisco IOS version associated with "First Distribution Date"	May 4, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Define an SNMPv2 MIB view (IOS)	snmp-server view	Cisco/Kenneth Roberts		Cisco IOS 10	1993
Delete a file (IOS)	delete (ex)	Cisco/Scott Mackie		Cisco IOS version associated with "First Distribution Date"	September 20, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Delete all multicast routes (IOS)	clear ip mroute	Cisco/Dino Farinacci	IOS 10	1993

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Description of the interactive help system (IOS)	help	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	August 12, 1996
Destination address translation (IOS)	ip nat inside destination	Cisco	Cisco IOS version associated with "First Distribution Date"	1995

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Destination file path (IOS)	rename rename xx-file-system	Cisco/Bob Andrews		Cisco IOS version associated with "First Distribution Date"	September 18, 1996	
Destination IP address (IOS)	show platform software etherchannel hash port	Cisco/Dave Davison		Cisco IOS version associated with "First Distribution Date"	January 2005	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Destination MAC address (IOS)	show platform software etherchannel hash mac ethernet loopback stop local interface	Cisco/Stavros Filargyropoulos		Cisco IOS version associated with "First Distribution Date"	January 2009	
Detailed interface information (IOS)	show interface detail	Cisco		Cisco IOS		

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Directory or file name (IOS)	dir	Cisco/Haiping Liu	Cisco IOS version associated with "First Distribution Date"	July 2008
Display current working directory (IOS)	pwd	Cisco/Scott Mackie	Cisco IOS version associated with "First Distribution Date"	August 1997

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Display detailed information (IOS)	show clock detail	Cisco/Neil Jarvis		Cisco IOS version associated with "First Distribution Date"	October 2002	
Display OSPF router IDs as DNS names (IOS)	ip ospf name-lookup	Cisco/Anthony Li		Cisco IOS 10	1993	
Display the contents of a file(IOS)	more	Cisco/Scott Mackie		Cisco IOS version associated with "First Distribution Date"	August 27, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Display the session command history (IOS)	show history	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	August 12, 1996
Display the system clock (IOS)	show clock	Cisco/David Katz/Robert Widmer	Cisco IOS 10	1993
Distance for external routes (IOS)	distance eigrp <dist1> <dist2> distance <1-254> <int-dist> <ext-dist>	Cisco	Cisco IOS version associated with "First Distribution Date"	1995

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Distance for internal routes (IOS)	distance eigrp distance	Cisco		Cisco IOS		
Distance for local routes (IOS)	distance bgp distance mbgp	Cisco/Kirk Lougheed		Cisco IOS 10	1993	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Distribute a default route (IOS)	default-information originate	Cisco/Anthony Li (OSPF) Dino Farinacci (OSPFv3)	SPF: Cisco IOS 10 SPFv3: Cisco IOS 5.1(3)S	OSPF: 1993 OSPFv3: July 25, 2011
Enable IP routing (IOS)	ip routing	Cisco/Kirk Lougheed Cisco/Terry Slattery (V.9.21)	Cisco Release 1.0/7.1 (command) IOS 9.21 (help description)	April 24, 1989

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Enable logging to all supported destinations (IOS)	logging on	Cisco	Cisco IOS	
Enable proxy ARP (IOS)	ip proxy-arp	Cisco/lol	Cisco IOS version associated with "First Distribution Date"	September 4, 1996
Enable SNMP; set community string and access privs (IOS)	snmp-server community	Cisco/Greg Satz Cisco/Terry Slattery	Cisco Release 10.0/7.1 (command) Cisco IOS version associated with "First Distribution Date" (help description)	April 24, 1989 (command) September 3, 1996 (help description)
End IP address (IOS)	address range	Cisco	Cisco IOS version associated with "First Distribution Date"	1995

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Operating System	First Distribution Date
End of range (IOS)	pool-range	Cisco/Robert Widmer	co IOS version associated with "First Distribution Date"	March 7, 1996
Enter configuration mode (IOS)	configure	Cisco/jokim	co IOS version associated with "First Distribution Date"	October 29, 1996
Exit from configure mode (IOS)	exit end	Cisco	co IOS	
External link states (IOS)	show ip ospf database external	Cisco/Robert Widmer	co IOS version associated with "First Distribution Date"	May 1993

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
File to be deleted (IOS)	delete bootflash delete flash delete nvram	Cisco/Scott Mackie		Cisco IOS version associated with "First Distribution Date"	September 20, 1996	
File to display (IOS)	more bootflash more cns more flash more ftp more http more https more null more nvram more pram more rcp more scp more system more tar more tftp more tmpsys more webui	Cisco/Scott Mackie		Cisco IOS version associated with "First Distribution Date"	August 27, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Forwarding routers address (IOS)	ip route	Cisco/Kirk Loughee Cisco/Terry Slattery (V.9.21)	Cisco Release 8.0 (command) / IOS 9.21 (help description)	September 14, 1989
Group to which the user belongs (IOS)	snmp-server user	Cisco/Ramanthan Kavasseri/jokim	Cisco IOS 12.0(3)T	January 21, 1999
Group using the User Security Model (SNMPv3) (IOS)	snmp-server group v3	Cisco	Cisco IOS	
Group using the v1 security model (IOS)	snmp-server group v1	Cisco	Cisco IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Group using the v2c security model (IOS)	snmp-server group v2c	Cisco	Cisco IOS	
Halt and perform a cold restart (IOS)	reload	Cisco	Cisco IOS	
Hello interval value (IOS)	isis hello-interval	Cisco/David Hampton/David Katz (Cisco IOS 10	1993
Hello multiplier value (IOS)	isis hello-multiplier	Cisco/David Katz	Cisco IOS 10	1993

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
ICMP message code (IOS)	show ipv6 snmp icmp [message code]	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	May 1993	
ICMP message type (IOS)	show ipv6 snmp icmp [message type]	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	May 1993	
IGMP host query interval (IOS)	ip igmp query-interval	Cisco/Dino Farinacci		Cisco IOS 10.2	October 4, 1994	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
IGMP max query response value (IOS)	ip igmp query-max-response-time	Cisco/Manoj Leelanivas/Dino Farinacci		Cisco IOS 11.1	March 1996	
IGMP static multicast group (IOS)	ip igmp static-group	Cisco/Manoj Leelanivas/Dino Farinacci		Cisco IOS 11.2	October 1996	
Interface specific description (IOS)	description	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	August 12, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Operating System	First Distribution Date	
Interface status and configuration (IOS)	show interfaces	Cisco/Kirk Lougheed Cisco/Terry Slattery (V.9.21)/jokim	co ASM/AGS 5.2 mmand) / S 9.21 (help scription)	July 20, 1986	
Interval in seconds (IOS)	ip pim state-refresh origination-interval enhanced-history interval buckets stp hellotime stp maxage stp forward	Cisco/Bruce Cole	co IOS version sociated with "First tribution Date"	March 28, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
IP address of ARP entry (IOS)	arp ip s/b arp vlan	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	February 2005	
IP address or hostname of a remote system (IOS)	updn ssh telnet	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	April 15, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating system	First Distribution Date
IP ARP table (IOS)	clear ip arp	Cisco/jokim	Cisco NX-OS 4.0(1)	21-Apr-08

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
IP group address (IOS)	clear ip sap debug lss ipmcast ipc ip igmp join-group	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	August 12, 1996	
IP interface status and configuration (IOS)	show ip interface	Cisco/Kirk Lougheed Cisco/Terry Slattery (V.9.21)/jokim		Cisco Release 7.0/7.1 (command) / IOS 9.21 (help description)	April 24, 1989	
IP routing table (IOS)	show ip route	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	May 1993	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
IP source address (IOS)	debug lss ipmcast ipc distance 100 [+B90A.B.C.D	Cisco/IJsbrand Wijnands		Cisco IOS version associated with "First Distribution Date"	June 2005	
IP subnet mask (IOS)	ip address [A.B.C.D]	Cisco		Cisco IOS		
Link state ID (as an IP address) (IOS)	show ip ospf database IP- ADDR	Cisco		Cisco IOS		
List file information (IOS)	show file information	Cisco/Scott Mackie		Cisco IOS version associated with "First Distribution Date"	August 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
List files on a filesystem (IOS)	dir	Cisco/Scott Mackie		Cisco IOS version associated with "First Distribution Date"	August 1997
Load interval delay in seconds (IOS)	load-interval ipv6 cef traffic-statistics load-interval	Cisco/William May/Crispin Dent-Young		Cisco IOS 10.3	April 13, 1995
MIB family is excluded from the view (IOS)	snmp-server viewexcluded snmp-server view MPLS-VPN-MIB excluded snmp-server view xx(name) xx(family-name) excluded	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	September 3, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
MIB family is included in the view (IOS)	snmp-server view included snmp-server view MPLS-VPN- MIB included snmp-server view xx(name) xx(familyname) included	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	September 3, 1996
MIB view family name (IOS)	snmp-server view	Cisco/Kenneth Roberts	Cisco IOS 10	1993
MIB view to which this community has access (IOS)	snmp-server community view	Cisco/Greg Satz Cisco/Terry Slattery (V.9.21)/jokim	Cisco Release 7.0/7.1 (command) / IOS 9.21 (help description)	April 24, 1989

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Modify enable password parameters (IOS)	enable enable use-tacacs	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	September 3, 1996	
Modify message logging facilities (IOS)	logging	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	1992	
Modify system boot parameters (IOS)	boot async-bootp	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	August 12, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Multicast Source Discovery Protocol (MSDP) (IOS)	clear ip msdp	Cisco		Cisco IOS version associated with "First Distribution Date"	June 1998	
Name of the group (IOS)	mm lat group-list snmp-server group	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	November 17, 1995	
Name of the user (IOS)	username snmp-server user	Cisco/Ramanthan Kavasseri		Cisco IOS 12.0(3)T	January 21, 1999	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Name of the view (IOS)	snmp-server view	Cisco/Kenneth Roberts	Cisco IOS 10	1993
Negate a command or set its defaults (IOS)	no	Cisco/Indrajanti Sukiman	Cisco IOS	
Network link states (IOS)	show ip ospf database network	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	May 1993
Network summary link states (IOS)	show ip ospf database summary	Cisco/Arpakorn Boonkongchuen/ Robert Widmer	Cisco IOS 11	September 18, 1995
Network time protocol (IOS)	show ntp (ex)	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	August 12, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
NSSA External link states (IOS)	show ip ospf database nssa-external (ex)	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	May 1993
NTP version number (IOS)	ntp broadcast version snmp server ipaddr snmp server version	Cisco/hampton	Cisco IOS version associated with "First Distribution Date"	November 17, 1995
Number of lines on screen (0 for no pausing) (IOS)	terminal length	Cisco/Kirk Lougher Cisco/Terry Slattery (V.9.21)	SM/AGS 5.2 (help description) / S 9.21 (help description)	July 20, 1986
Number of probes (IOS)		Cisco	S	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Number of retries to this server for a transaction (IOS)	server-private retransmit	Cisco/Jan Vilhuber		Cisco IOS version associated with "First Distribution Date"	June 1998
Opaque Area link states (IOS)	show ip ospf database opaque-area	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	May 1993
Opaque AS link states (IOS)	show ip ospf database opaque-as	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	May 1993

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Opaque Link-Local link states (IOS)	show ip ospf database opaque-link	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	May 1993
Open a telnet connection (IOS)	telnet	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	April 15, 1996
Open a terminal connection (IOS)	connect	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	April 15, 1996
Originate default route to this neighbor	neighbor default-originate route-map	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	1995

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
OSPF router-id in IP address format (IOS)	router-id	Cisco/Derek M. Yeung		Cisco IOS 12.0(1)T	November 2, 1998	
Ping destination address or hostname (IOS)	ping WORD	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	September 3, 1996	
Prefix list name (IOS)	ip msdp default-peer prefix-list	Cisco		Cisco IOS version associated with "First Distribution Date"	1998	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Query interval in seconds (IOS)	ip igmp tcn query interval	Cisco/Dino Farinacci		Cisco IOS 10.2	October 4, 1994	
Read-only access with this community string (IOS)	snmp-server community ro	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	2005	
Reason for reload (IOS)	reload LINE	Cisco		Cisco IOS version associated with "First Distribution Date"	2004	
Redistribute OSPF external routes (IOS)	redistribute ospf 1 match external	Cisco/Steven E. Moore		Cisco IOS version associated with "First Distribution Date"	June 20, 2008	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Redistribute OSPF internal routes (IOS)	redistribute ospf 1 match internal	Cisco		Cisco IOS		
Redistribute OSPF NSSA external routes (IOS)	redistribute ospf 1 match nssa external	Cisco/Steven E. Moore		Cisco IOS version associated with "First Distribution Date"	June 20, 2008	
Redistribution of OSPF routes (IOS)	redistribute ospf 1 match	Cisco/Steven E. Moore		Cisco IOS version associated with "First Distribution Date"	June 20, 2008	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
Rename a file (IOS)	rename	Cisco/Bob Andrews		Cisco IOS version associated with "First Distribution Date"	September 18, 1996	
Reset a terminal line (IOS)	clear line	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	1992	
Restrict this community to a named MIB view (IOS)	snmp-server community view	Cisco/jokim		Cisco IOS version associated with "First Distribution Date"	September 3, 1996	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Route map reference (IOS)	route-replicate from unicast route-map ip multicast rpf-check-interval	Cisco/Steven E. Moore		Cisco IOS version associated with "First Distribution Date"	June 20, 2008
Router link states (IOS)	show ip ospf database router	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	May 1993

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date	
RPF across equal-cost paths (IOS)	ip multicast multipath ipv6 multicast multipath	Cisco/Robert Widmer		isco IOS version associated with "First Distribution Date"	8/12/1996	
Select an interface to configure (IOS)	interface	Cisco/jokim		isco IOS version associated with "First Distribution Date"	September 3, 1996	
Self-originated link states (IOS)	show ip ospf database self-originate	Cisco/Robert Widmer		isco IOS version associated with "First Distribution Date"	May 1993	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Send community attribute to this neighbor (IOS)	neighbor send-community	Cisco/Paul Traina	Cisco IOS 10.3	April 13, 1995
Send echo messages (IOS)	ping	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	September 3, 1996
Send Inform messages to this host (IOS)	snmp-server host informs	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	September 3, 1996
Send Trap messages to this host (IOS)	snmp-server host traps	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	September 3, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Set a static ARP entry (IOS)	arp	Cisco/jokim	co IOS version associated with "First Distribution Date"	September 3, 1996
Set authentication list for enable (IOS)	aaa authentication enable	Cisco/Dave Carrel	co IOS version associated with "First Distribution Date"	September 3, 1996
Set authentication lists for logins (IOS)	aaa authentication login	Cisco/Dave Carrel	co IOS version associated with "First Distribution Date"	September 3, 1996
Set buffered logging parameters (IOS)	logging buffered	Cisco	co IOS version associated with "First Distribution Date"	1992

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Set key string (IOS)	authentication authentication md5 key-string authentication md5 key-chain	Cisco/Andy Heffernan	co IOS version associated with "First Distribution Date"	June 2009
Set priority for Designated Router election (IOS)	isis priority	Cisco/David Hampton	co IOS 10	1993
Set syslog server logging level (IOS)	logging trap	Cisco/Jack Jenney	co IOS version associated with "First Distribution Date"	November 1997

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating stem	First Distribution Date	
Set the IP address of an interface (IOS)	ip address	Cisco/Kirk Lougheed Cisco/Terry Slattery (V.9.21)/lol		sco Release 0/7.1 (command) / S 9.21 (help scription)	April 24, 1989	
Show detailed Information (IOS)	show udp detail	Cisco/Gary Green		sco IOS version sociated with "First tribution Date"	May 2000	
Show filesystem information (IOS)	show file	Cisco/Scott Mackie		sco IOS version sociated with "First tribution Date"	August 21, 1996	
Show QoS Class Map (IOS)	show class-map	Cisco		sco IOS		

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	Operating System	First Distribution Date
Show QoS Policy Map (IOS)	show policy-map	Cisco	to IOS	
Show running system information (IOS)	show	Cisco/Robert Widmer	to IOS version associated with "First Distribution Date"	August 12, 1996
Show SNMPv3 groups (IOS)	show snmp group	Cisco	to IOS	
Show SNMPv3 users (IOS)	show snmp user	Cisco	to IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Show summary information (IOS)	show hrpc summary show mfib table detail	Cisco/Philip Downey		Cisco IOS version associated with "First Distribution Date"	March 2007
Show the contents of logging buffers (IOS)	show logging	Cisco/Robert Widmer		Cisco IOS version associated with "First Distribution Date"	August 12, 1996
SNMP community string (IOS)	snmp-server community ?	Cisco		Cisco IOS version associated with "First Distribution Date"	August 12, 1996

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
SNMP version to use for notification messages (IOS)	snmp-server host version	Cisco/jokim	isco IOS version associated with "First Distribution Date"	September 3, 1996
SNMPv1/v2c community string or SNMPv3 user name (IOS)	snmp-server host WORD	Cisco/jokim	isco IOS version associated with "First Distribution Date"	September 3, 1996
Source address translation (IOS)	ip nat source ip nat outside source	Cisco	isco IOS version associated with "First Distribution Date"	1995
Source file path (IOS)	rename rename flash0 rename flash1 rename flash rename nvram rename pram	Cisco/Bob Andrews	isco IOS version associated with "First Distribution Date"	September 18, 1996
Source IP address (IOS)	vrf selection source name	Cisco/Lei Fu	isco IOS version associated with "First Distribution Date"	May 2007

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Source MAC address (IOS)	mac-address source mac-address source interface	Cisco		Cisco IOS version associated with "First Distribution Date"	
Spanning Tree Subsystem (IOS)	spanning-tree	Cisco/Mike Bennett		Cisco IOS version associated with "First Distribution Date"	April 1998
Spanning tree topology (IOS)	show spanning-tree	Cisco/Tony Wu		Cisco IOS version associated with "First Distribution Date"	July 1997
Specify a RADIUS server (IOS)	server	Cisco/Jan Vilhuber		Cisco IOS version associated with "First Distribution Date"	June 1998
Specify a notify view for the group (IOS)	snmp-server group v3 noauth notify	Cisco		Cisco IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Specify a read view for the group (IOS)	snmp-server group v3 noauth read	Cisco	Cisco IOS	
Specify a remote SNMP entity to which the user belongs (IOS)	snmp-server user asdf remote	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	September 3, 1996
Specify a write view for the group (IOS)	snmp-server group v3 noauth write	Cisco	Cisco IOS	
Specify hosts to receive SNMP notifications (IOS)	snmp-server host	Cisco/Greg Satz Cisco/Terry Slattery (V.9.21)/jokim	Cisco Release 7.0/7.1 / IOS 9.21 (help description)	April 24, 1989
Specify interval for load calculation for an interface (IOS)	load-interval	Cisco/William May/anke	Cisco IOS 10.3	April 13, 1995
Specify name of the next hop (IOS)	ip route name	Cisco/David Hsu	Cisco IOS version associated with "First Distribution Date"	March 2007

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Stamp logger messages with a sequence number (IOS)	service sequence-number	Cisco	Cisco IOS 12	Sep-98
Start IP address (IOS)	address range ip nat pool	Cisco	Cisco IOS version associated with "First Distribution Date"	1995
String to uniquely identify this chassis (IOS)	snmp-server chassis-id	Cisco/Arpakorn Boonkongchuen/jokim	Cisco IOS 11	September 18, 1995
Summary of database (IOS)	show ip ospf database database-summary	Cisco/Robert Widmer Cisco/Arpakorn Boonkongchuen	Cisco IOS 10 Cisco IOS 11	May 1993 September 18, 1995

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Text for mib object sysContact (IOS)	snmp-server contact	Cisco/Robert Widmer/jokim	isco IOS 10	1993
Text for mib object sysLocation (IOS)	snmp-server location	Cisco/Robert Widmer/jokim	isco IOS 10	1993
The HIDDEN shared key (IOS)	tacacs-server key 7	Cisco/Bill Westfield	isco IOS version associated with "First Distribution Date"	August 2, 1996
The UNENCRYPTED (cleartext) shared key (IOS)	tacacs-server key 0	Cisco	isco IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
The notification hosts UDP port number (IOS)		Cisco	Cisco IOS	
The physical location of this node (IOS)	snmp-server location	Cisco/Robert Widmer/jokim	Cisco IOS 10	1993
The remote SNMP entitys UDP port number (IOS)		Cisco	Cisco IOS	
Time in minutes (IOS)	environment-monitor temperature-threshold	Cisco/Bill Westfield	Cisco IOS version associated with "First Distribution Date"	September 2002
Time in seconds (IOS)		Cisco/Chris VanHeuveln	Cisco IOS version associated with "First Distribution Date"	April 2008
Trace route to destination address or hostname (IOS)	traceroute	Cisco/jokim	Cisco IOS version associated with "First Distribution Date"	September 3, 1996
Transmission Control Protocol (IOS)	clear ip nat translation tcp	Cisco	Cisco IOS	
Turn off privileged commands (IOS)	disable	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	December 15, 1995
Turn on privileged commands (IOS)	enable	Cisco/Robert Widmer	Cisco IOS version associated with "First Distribution Date"	December 15, 1995

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
Unique ID string (IOS)	snmp-server chassis-id	Cisco/Carl Schaefer/jokim	sco IOS 10	1993
Use HMAC MD5 algorithm for authentication (IOS)	snmp-server user asdf adsf v3 encrypted auth md5 snmp-server user xxx(user-name)xxx(group) remote xxx(address) vrf xxx(instant-name) v3 auth md5(c)	Cisco/Ramanthan Kavasseri/A S Kira Koushik	sco IOS .0(3)T	21-Jan-99
Use HMAC SHA algorithm for authentication (IOS)	snmp-server user asdf adsf v3 encrypted auth sha	Cisco/Ramanthan Kavasseri/A S Kira Koushik	sco IOS .0(3)T	January 21, 1999
Use the SNMPv3 authNoPriv security level (IOS)	snmp-server host informs version 3 auth	Cisco	sco IOS	
Use the SNMPv3 noAuthNoPriv security level (IOS)	snmp-server host informs version 3 noauth	Cisco	sco IOS	
User Datagram Protocol (IOS)	clear ip nat translation udp	Cisco	sco IOS	
User using the v1 security model (IOS)	snmp-server user asdf adsf remote v1	Cisco	sco IOS	
User using the v2c security model (IOS)	snmp-server user asdf adsf remote v2c	Cisco	sco IOS	

Help Descriptions	Exemplary Associated Command(s)	Author / Originator	First Operating System	First Distribution Date
User using the v3 security model (IOS)	snmp-server user asdf asdf remote v3	Cisco	Cisco IOS	
VPN Routing/Forwarding instance (IOS)	show ip route vrf show bfd neighbors multihop-ipv4 vrf	Cisco/Stefano Previdi	Cisco IOS version associated with "First Distribution Date"	September 2003
Verify a file (IOS)	verify	Cisco/Scott Mackie	Cisco IOS version associated with "First Distribution Date"	September 18, 1996
Wait time (default 5 seconds) (IOS)	tacacs-server timeout	Cisco/Greg Satz Cisco/Terry Slattery (V.9.21)	Cisco Release 15.0/7.1 / IOS 9.21 help description)	April 24, 1989
EngineID of the local agent (IOS)	snmp-server engineID local	Cisco/Ramanthan Kavasseri	Cisco IOS 12.0(3)T	January 21, 1999
Identification of the contact person for this managed node (IOS)	snmp-server contact	Cisco/Robert Widmer	Cisco IOS 10	1993
Name of the next hop (IOS)	ip route name	Cisco/David Hsu	Cisco IOS version associated with "First Distribution Date"	March 2007
Next hop address (IOS)	show mpls static binding nexthop	Cisco/Bob Thomas	Cisco IOS version associated with "First Distribution Date"	June 1999

Help Descriptions	Exemplary Associated Command(s)	Author / Originator		First Operating System	First Distribution Date
Notify view name (IOS)	snmp-server group asdf v3 auth notify	Cisco		Cisco IOS	
Rate in Kbps (IOS)	atm forward-sustainable-cell- rate-clp1	Cisco		Cisco IOS	
Read view name (IOS)	snmp-server group asdf v3 auth read	Cisco		Cisco IOS	
Timeout in seconds (IOS)	ping ip timeout	Cisco		Cisco IOS	
Write view name (IOS)	snmp-server group asdf v3 auth write	Cisco		Cisco IOS	
32-bit tag value (IOS)	summary-prefix	Cisco/Dave Forster		Cisco IOS version associated with "First Distribution Date"	November 2000